

IN THE SPECIFICATION:

Title

o At page 2, line 1, please replace the title —Method and Apparatus for Vector Gather and Scatter — with the new title “Code Sequence for Vector Gather and Scatter.”

Abstract

At page 18, line 2, please replace the current abstract with the following new abstract:

A1

Gather and scatter operations are used when elements of a vector which may be operated on in parallel are not located at successive addresses in memory. Prior data processing systems required complex address calculation hardware and other hardware to perform vector gather and scatter operations. By contrast, one embodiment of the present invention implements gather and scatter operations using a plurality of deposit and extract instructions. As a result, gather and scatter operations may be efficiently performed within a general purpose processing environment and without the need for dedicated gather/scatter hardware.